



ORANGEVILLE
WATER TREATMENT PLANT

ANNUAL REPORT

1960

PREPARED BY
THE DIVISION OF PLANT OPERATIONS
ONTARIO WATER RESOURCES COMMISSION

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TOWN OF ORANGEVILLE

OWRC - PROJECT 58-S-16

The Town of Orangeville up to 1959 was operating a sewage treatment plant which had been in use for many years and was proving inadequate under the conditions of flow and required treatment results. Therefore, the Council retained the firm of Proctor & Redfern, Consulting Engineers, to prepare a report on the alleviation of the sewage disposal problem of the town. This report was submitted in February of 1958 and recommended the construction of new 750,000 gallon per day primary treatment units and the conversion of the existing units to secondary treatment, where possible.

An application for assistance in constructing the recommended works was made to the Ontario Water Resources Commission in June of 1958, a preliminary agreement was signed and application was made to the Ontario Municipal Board in July of 1959 which gave final approval for an expenditure of \$161,000.00. The final OWRC approval was given in the same month.

Frid Construction Company Limited was awarded the construction contract for the bid price of \$134,500.00. In May of 1960, the new portions of the sewage plant, consisting of pump house and control building, grit channels, primary clarifier, overflow division chamber, and chlorine contact chamber, were placed in operation under the supervision of the Division of Plant Operations and the old sections of the plant taken out of service for repair, renovation and cleaning. These were ready to be placed in operation in October of 1960.

On October 31st an attempt was made to place the aeration and final tanks in operation. At this time, it was found that the hydraulic gradient of the plant was such that sewage would not flow into the aeration tank. Subsequent investigation by the consulting engineer resulted in a modification to the overflow division chamber, which seems to have corrected the condition. The modification consists essentially of a raised overflow weir.

On December 30 of 1960, the secondary stages of the plant were placed in operation.

Very little in the way of records are available for the sewage treatment plant. No records at all were kept until the end of October, and, of course, no records of full treatment are available. As of December, the operator has been sending samples to the OWRC laboratory.

The problems associated with this plant would seem to be, for the most part, those common to starting up any plant. However, in the case of Orangeville, these normal difficulties were compounded by attempting to correlate a new 750,000 gallon per day primary plant with the extremely old secondary units with a capacity of 250,000 gallons per day. A recurring problem is that of sludge disposal. The existing sludge drying beds are not adequate, so liquid sludge must be disposed of from the old sludge holding tank by truck. A contract for the disposal of this liquid sludge is now being negotiated.

The operator, Mr. C. G. Clarke, is capable and conscientious, and under his operation, with control by Plant Operations Division, the Orangeville sewage treatment plant will produce an acceptable degree of sewage treatment for effluent discharge to the Credit River. However, the time is not too far distant when the older sections of the plant will have to be replaced.

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